



# CRAB Technology Days 2012

Autodesk

April 26th - 27th, 2012 Confluence Technology Center (CTC) in Wenatchee, WA

9:00am –9:15am	<b>OPENING REMARKS – Craig Sanders, Autodesk &amp; Jim Ayres P.E., CRAB</b>	
<b>Time</b>	<b>Track 1 –Methow</b>	<b>Track 2 – Teanaway</b>
9:15am–10:15am	<b>Autodesk Surveying Solutions</b> <b>Duration:</b> 60 min <b>Attendee Profile:</b> Surveyors, GIS Professionals <b>Topics:</b> This is an introductory session to the survey functionality within Civil 3D. Users will learn the following in this session: setting coordinate systems, survey database, importing data, specifying feature codes and attributes, connecting survey points using control coding, editing points and figures, and generating drawings.	<b>BIM, Visualization, and Infrastructure Design Suite</b> <b>Duration:</b> 60 min <b>Attendee Profile:</b> Project Managers, Designers and Visualization specialists <b>Topics:</b> This session will discuss how BIM and visualization can be applied to the conceptual, environmental, design, construction phases of a project. Ways to utilize BIM and visualization to inform the public will also be discussed as well
10:15am–10:30am	<b>Break Time</b>	<b>Break Time</b>
10:30am–Noon	<b>Civil 3D Surface Modeling</b> <b>Duration:</b> 90 min <b>Attendee Profile:</b> Surveyors, GIS Professionals <b>Topics:</b> This session will focus on the best practices for creating and manipulating surfaces. Users attending this session will be able to use these methods in their daily design processes.	<b>Road Rehab Basics with Civil 3D</b> <b>Duration:</b> 90 min <b>Attendee Profile:</b> Project Managers, Designers <b>Topics:</b> This This session will cover more advance corridor modeling techniques. Special emphasis will be given to reconstruction techniques, including widening and overlays. Users attending this session will learn of the best practices for corridor modeling on reconstruction projects.
Noon–1:00pm	<b>Lunch Provided</b>	<b>Lunch Provided</b>
1:00pm–2:30pm	<b>Civil 3D LIDAR Tools &amp; Feature Extraction</b> <b>Duration:</b> 90 min <b>Attendee Profile:</b> Surveyors, GIS Professionals <b>Topics:</b> Users will develop an understanding in this session on how the can utilize an accurate point cloud to validate the true design versus the as-built condition. This session will use an example roadway warranty project to demonstrate how to classify and vectorize key features of the roadway, including the centerline and edges of lane.	<b>Autodesk Subassembly Composer Workflow</b> <b>Duration:</b> 90 min <b>Attendee Profile:</b> Project Managers, Designers <b>Topics:</b> This session will focus on the creation and manipulation of sub-assemblies. Users will learn how to create points, links, and shapes that address common engineering designs.
2:30pm–3:00pm	<b>Break Time</b>	<b>Break Time</b>
3:00pm–4:30pm	<b>Civil 3D / Map 3D Pictometry</b> <b>Duration:</b> 90 min <b>Attendee Profile:</b> Surveyors, GIS, and Visualization Specialists <b>Topics:</b> This session will expose the user to the new Pictometry connection within Civil 3D and Map 3D. Users will gain an understanding how they can use both orthogonal and oblique imagery provided via Pictometry within their Autodesk design session. Examples will be provided for using the imagery for measurements and overlays to help supplement classical Civil 3D and Map 3D workflows.	<b>Civil 3D Grading Clinic</b> <b>Duration:</b> 60 min <b>Attendee Profile:</b> Designers, Project Managers <b>Topics:</b> This session will provide the user with exposure to the grading tools provided within Civil 3D. Examples will be provided explaining the usages of Sites, Grading Groups, Volumes, and dynamic feature usage. Attendees of this session will be able to better utilize grading features as part of their Civil 3D workflows.



# CRAB Technology Days 2012



Time	Track 1 –Methow	Track 2 – Teanaway
8:00am–9:30am	<b>Civil 3D Tips, Tricks, &amp; Action Click Savers</b> <b>Duration:</b> 90 min <b>Attendee Profile:</b> Project Managers, Designers, Surveyors, GIS Professionals  <b>Topics:</b> This session will focus on the not so known tools and techniques that make Civil 3D much more powerful. Demonstrations of several tools and tricks that help to speed up a user's production will be shown in this session.	<b>Drainage Design w/Autodesk Storm &amp; Sanitary Analysis</b> <b>Duration:</b> 90 min <b>Attendee Profile:</b> Project Managers, Designers, Hydro/Hydra Professionals  <b>Topics:</b> Learn how to perform the analysis of drainage systems in Autodesk Storm and Sanitary Analysis (SSA). Explore its use in modeling and analyzing drainage systems and stormwater management features such as detention basins, including its interaction with AutoCAD Civil 3D. Model water quality best management practices (BMP's) that are required by regulatory agencies. Create custom reports with the click of a button.
9:30am–10:00am	<b>Break Time</b>	<b>Break Time</b>
10:00am–11:30am	<b>AutoCAD to Office Documents + Files &amp; Data Autodesk</b> <b>Duration:</b> 90 min <b>Attendee Profile:</b> Project Managers, Designers, Surveyors, GIS Professionals  <b>Topics:</b> This session will focus on the integration into the AutoCAD environment with Microsoft Office data files. Focus will be placed on how to link Word and Excel files into drawing files and then to subsequently update this information as the .doc and .xls data changes. Consideration of fonts and drawing composition will also be discussed.	<b>AutoCAD and C3D Visualization</b> <b>Duration:</b> 90 min <b>Attendee Profile:</b> Project Managers, Designers and Visualization specialists  <b>Topics:</b> This session will provide examples and workflows that utilize the many visualization tools found within both AutoCAD and Civil 3D. The basic tools within AutoCAD for viewing, rendering and flying through data will be discussed in detail. The specialized tools provided by Civil 3D will also be reviewed, including the Visibility Check tools.
11:30am–Noon	<b>FEEDBACK/PANEL DISCUSSIONS</b>	

**GENERAL REGISTARTION INFORMATION:**

- > Name Badges are required for entrance into all Sessions, Workshops, and Panel Discussions.
- >Vendor Door Prizes!!! Don't forget to hang around to the end of the 2<sup>nd</sup> day to drop off your evaluations to be eligible for some nice merch!